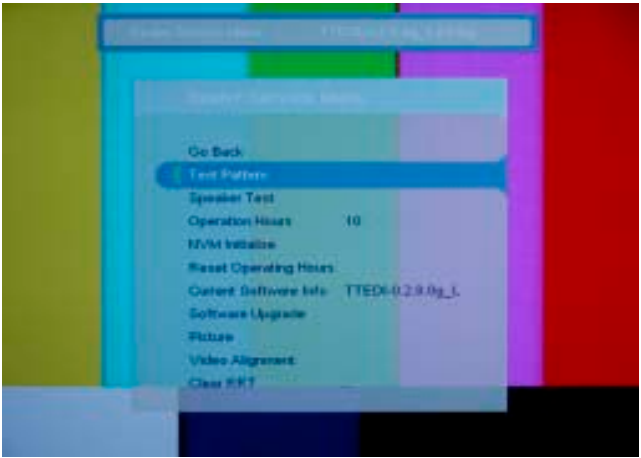


P810

Alignments

Entering the Factory Service mode

Turn the instrument OFF. Then press the Vol - button on the remote and Vol - on the keypad simultaneously. Hold the buttons for approximately 10 seconds until the instrument turns ON. Using the remote if you want to select an item, press the Up (^) and Down (v) buttons. Adjust the setting value using the Left (<) and Right (>) key. Press the Clear button to return to the main menu after adjusting a value. Press the Clear button or select Go Back the menu to exit the Factory Service mode.



Main Menu

The Main Menu includes the following features:

Dealer Service Menu: This is at the very top of the screen. It contains the current software version loaded in the instrument.

Go Back: Returns to the previous menu.

Test Pattern: Menu will bring up color test screens.

Speaker Test: Press OK for a 5 second test tone.

Operating Hours: Displays the hours of operation

NVM Initialise: Clears the NVM. This function resets all customer settings to a out of box condition. Press the OK button to start the process.

Reset Operating Hours: Resets the operating hours to 0.

Current Software Info: Displays the current software version.

Software Upgrade: Allows for software upgrades.

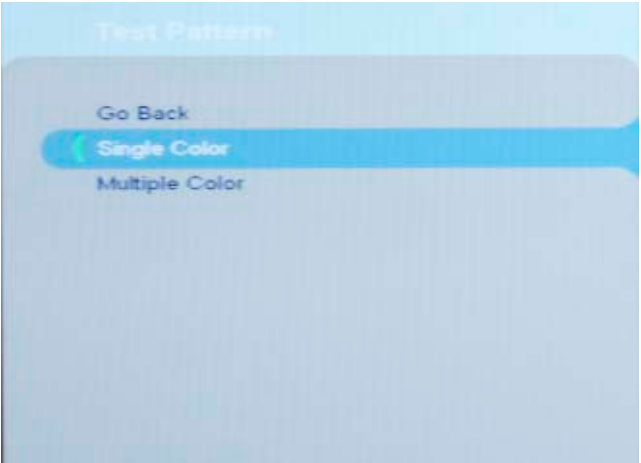
Picture: Customer Picture Menu

Video Alignment: Video Alignemt Menu

Clear RRT: Clears the Regional Ratings Table. Select OK to clear the table.

Test Pattern

The Test Pattern menu will display either a multiple color bar or a flat color screen. Each display will be visible for approxitimately 5 seconds. Use the arrow up or down on the remote to select Test Pattern from the menu. Then use the OK button on the remote to enter the next menu. Select Go Back to return to the previous menu.

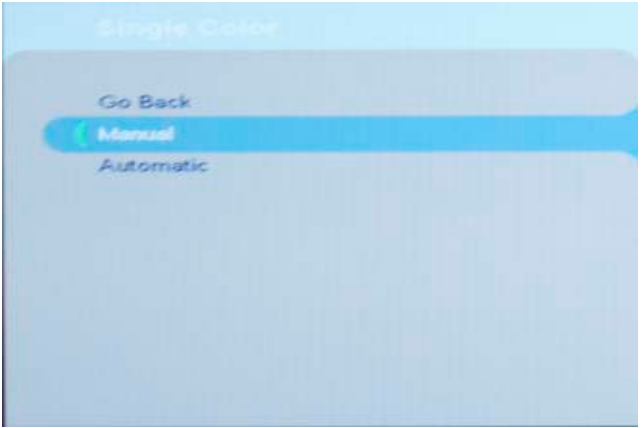


Single Color: Will bring up 2 options.

Manual: Select which color to display (Red, Green, Blue, White and Black). Press the OK button on the remote to display the pattern.



Automatic: Select, then select OK to scroll through the different color screens (Red, Green, Blue, White and Black). Will continue to scroll through the patterns until the OK button is press.



Multiple Color: Select, then select OK to display multiple bands of color.



Software Upgrade

Software upgrades are installed by the use of a generic USB device. Specific instructions related to software updates will be released within the software data package.

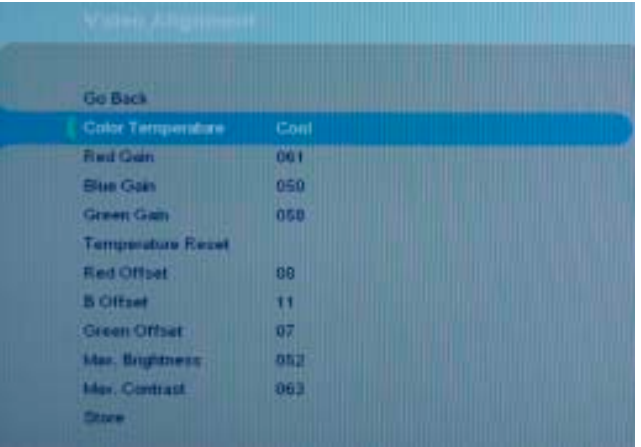


Local Upgrades/Applications: Will search for software up grades, then initiate the upgrade process.

Current Software Info: Displays the current software version and the date of install.

Video Alignment

The Cut Off alignment is used to define the color coordinates for low level luminance. The Whitepoint is used to define the color coordinates for bright luminance This alignment must be completed using Line Input (CVBS).



1. Enter the Factory Service mode.
2. Select VIDEO from the menu, then select Normal from the Color Temperature sub-menu.

NOTE: It is only necessary to perform the Cut Off and White Point Alignments with the Color Temperature set to the Normal position. The values for Cool and Warm are interpolated based on the Normal settings.

3. Insert a grey test pattern with a 10 to 20 Nits luminance level.
4. Using a Color TV Analyzer measure the coordinates at the center of the screen. Adjust Red Offset, B Offset and Green Offset for x = 0.280 +/- 5%, y = 0.290 +/- 5%
5. Insert a 50IRE (or 150 nits) grey test pattern.
6. Using a Color TV Analyzer measure the coordinates at the center of the screen. Adjust R Gain, G Gain and B Gain for x = 0.280 +/- 5%, y = 0.290 +/- 5%.

NOTE: It may necessary to switch between the Cut Off and White Point Alignments in order to achieve the proper alignment.

8. Exit the Service Menu by press the Clear button on the remote.

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Alignments

Brightness Alignment

1. Enter the Factory Service mode.
2. Select VIDEO from the menu, then select Brightness.
3. Insert a pluge test pattern thru RF with a 2% setup background with a 0% and 4% bar.
4. Adjust the Brightness so that the 0% bar is invisible with the 4% bar visible.
5. Exit the Factory Mode by pressing Clear on the remote.

Peak White Adjustment

The Peak White alignment must be completed to the following standards.

1. Enter the Factory Service mode.
2. Select VIDEO from the menu, then select Peak White.
3. Input a test pattern with a 100% white centered pad on a dark background.
4. Using a Color TV Analyzer measure the luminance level (Y[nit]) of the white pad. Adjust with the Scaling Contrast the Light Output Level (PW Level) for 400 Nits + 20%/- 10%.

Defective Pixel Specification

A pixel is defined as three elements or dots, one red, one blue, and one green. Thus one bright pixel is three bright adjacent dots. No bright pixels are allowed but 3 bright dots are allowed subject to the following:

The bright dots must be viewable on normal program material (not static test patterns) when viewed at a distance of five feet from a point perpendicular to the center of the screen at eye level. The panel is considered defective if the pixels are viewable and they are within ¼” of another bright dot.

Also, no more than eight dark dots, and no dark pixels will be accepted when viewed under the same conditions.